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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/734,661A

DATE: 10/15/2004
TIME: 11:07:01

Input Set : N:\AMC\US10734661A.raw
Output Set: N:\CRF4\10152004\J734661A.raw

1 <110> APPLICANT: ProChon Biotech, Ltd.
2 MorphoSys AG
3 Yayon, Avner
4 Thomassen-Wolf, Elisabeth
5 Rom, Eran
6 Borges, Eric
7 <120> TITLE OF INVENTION: ANTIBODIES THAT BLOCK RECEPTOR PROTEIN TYROSINE KINASE
ACTIVATION
8 <130> FILE REFERENCE: 81408-4400
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/734,661A
10 <141> CURRENT FILING DATE: 2003-12-15
11 <150> PRIOR APPLICATION NUMBER: US 60/299,187
12 <151> PRIOR FILING DATE: 2001-06-20
13 <150> PRIOR APPLICATION NUMBER: PCT/IL02/00494
14 <151> PRIOR FILING DATE: 2002-06-20
15 <160> NUMBER OF SEQ ID NOS: 106
16 <170> SOFTWARE: PatentIn version 3.2
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 806
20 <212> TYPE: PRT
21 <213> ORGANISM: Homo sapiens
22 <300> PUBLICATION INFORMATION:
23 <308> DATABASE ACCESSION NO: np_000133
24 <309> DATABASE ENTRY DATE: 2001-02-21
25 <313> RELEVANT RESIDUES: (1)..(806)
26 <400> SEQUENCE: 1
27 Met Gly Ala Pro Ala Cys Ala Leu Ala Leu Cys Val Ala Val Ala Ile
28 1 5 10 15
29 Val Ala Gly Ala Ser Ser Glu Ser Leu Gly Thr Glu Gln Arg Val Val
30 20 25 30
31 Gly Arg Ala Ala Glu Val Pro Gly Pro Glu Pro Gly Gln Gln Glu Gln
32 35 40 45
33 Leu Val Phe Gly Ser Gly Asp Ala Val Glu Leu Ser Cys Pro Pro Pro
34 50 55 60
35 Gly Gly Gly Pro Met Gly Pro Thr Val Trp Val Lys Asp Gly Thr Gly
36 65 70 75 80
37 Leu Val Pro Ser Glu Arg Val Leu Val Gly Pro Gln Arg Leu Gln Val
38 85 90 95
39 Leu Asn Ala Ser His Glu Asp Ser Gly Ala Tyr Ser Cys Arg Gln Arg
40 100 105 110
41 Leu Thr Gln Arg Val Leu Cys His Phe Ser Val Arg Val Thr Asp Ala
42 115 120 125
43 Pro Ser Ser Gly Asp Asp Glu Asp Gly Glu Asp Glu Ala Glu Asp Thr
44 130 135 140

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f.6

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45 Gly Val Asp Thr Gly Ala Pro Tyr Trp Thr Arg Pro Glu Arg Met Asp
 46 145 150 155 160
 47 Lys Lys Leu Leu Ala Val Pro Ala Ala Asn Thr Val Arg Phe Arg Cys
 48 165 170 175
 49 Pro Ala Ala Gly Asn Pro Thr Pro Ser Ile Ser Trp Leu Lys Asn Gly
 50 180 185 190
 51 Arg Glu Phe Arg Gly Glu His Arg Ile Gly Gly Ile Lys Leu Arg His
 52 195 200 205
 53 Gln Gln Trp Ser Leu Val Met Glu Ser Val Val Pro Ser Asp Arg Gly
 54 210 215 220
 55 Asn Tyr Thr Cys Val Val Glu Asn Lys Phe Gly Ser Ile Arg Gln Thr
 56 225 230 235 240
 57 Tyr Thr Leu Asp Val Leu Glu Arg Ser Pro His Arg Pro Ile Leu Gln
 58 245 250 255
 59 Ala Gly Leu Pro Ala Asn Gln Thr Ala Val Leu Gly Ser Asp Val Glu
 60 260 265 270
 61 Phe His Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Leu
 62 275 280 285
 63 Lys His Val Glu Val Asn Gly Ser Lys Val Gly Pro Asp Gly Thr Pro
 64 290 295 300
 65 Tyr Val Thr Val Leu Lys Thr Ala Gly Ala Asn Thr Thr Asp Lys Glu
 66 305 310 315 320
 67 Leu Glu Val Leu Ser Leu His Asn Val Thr Phe Glu Asp Ala Gly Glu
 68 325 330 335
 69 Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Phe Ser His His Ser Ala
 70 340 345 350
 71 Trp Leu Val Val Leu Pro Ala Glu Glu Glu Leu Val Glu Ala Asp Glu
 72 355 360 365
 73 Ala Gly Ser Val Tyr Ala Gly Ile Leu Ser Tyr Gly Val Gly Phe Phe
 74 370 375 380
 75 Leu Phe Ile Leu Val Val Ala Ala Val Thr Leu Cys Arg Leu Arg Ser
 76 385 390 395 400
 77 Pro Pro Lys Lys Gly Leu Gly Ser Pro Thr Val His Lys Ile Ser Arg
 78 405 410 415
 79 Phe Pro Leu Lys Arg Gln Val Ser Leu Glu Ser Asn Ala Ser Met Ser
 80 420 425 430
 81 Ser Asn Thr Pro Leu Val Arg Ile Ala Arg Leu Ser Ser Gly Glu Gly
 82 435 440 445
 83 Pro Thr Leu Ala Asn Val Ser Glu Leu Glu Leu Pro Ala Asp Pro Lys
 84 450 455 460
 85 Trp Glu Leu Ser Arg Ala Arg Leu Thr Leu Gly Lys Pro Leu Gly Glu
 86 465 470 475 480
 87 Gly Cys Phe Gly Gln Val Val Met Ala Glu Ala Ile Gly Ile Asp Lys
 88 485 490 495
 89 Asp Arg Ala Ala Lys Pro Val Thr Val Ala Val Lys Met Leu Lys Asp
 90 500 505 510
 91 Asp Ala Thr Asp Lys Asp Leu Ser Asp Leu Val Ser Glu Met Glu Met
 92 515 520 525
 93 Met Lys Met Ile Gly Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala

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Input Set : N:\AMC\US10734661A.raw
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94 530 535 540
 95 Cys Thr Gln Gly Gly Pro Leu Tyr Val Leu Val Glu Tyr Ala Ala Lys
 96 545 550 555 560
 97 Gly Asn Leu Arg Glu Phe Leu Arg Ala Arg Arg Pro Pro Gly Leu Asp
 98 565 570 575
 99 Tyr Ser Phe Asp Thr Cys Lys Pro Pro Glu Glu Gln Leu Thr Phe Lys
 100 580 585 590
 101 Asp Leu Val Ser Cys Ala Tyr Gln Val Ala Arg Gly Met Glu Tyr Leu
 102 595 600 605
 103 Ala Ser Gln Lys Cys Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu
 104 610 615 620
 105 Val Thr Glu Asp Asn Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg
 106 625 630 635 640
 107 Asp Val His Asn Leu Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu
 108 645 650 655
 109 Pro Val Lys Trp Met Ala Pro Glu Ala Leu Phe Asp Arg Val Tyr Thr
 110 660 665 670
 111 His Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu Trp Glu Ile Phe
 112 675 680 685
 113 Thr Leu Gly Gly Ser Pro Tyr Pro Gly Ile Pro Val Glu Glu Leu Phe
 114 690 695 700
 115 Lys Leu Leu Lys Glu Gly His Arg Met Asp Lys Pro Ala Asn Cys Thr
 116 705 710 715 720
 117 His Asp Leu Tyr Met Ile Met Arg Glu Cys Trp His Ala Ala Pro Ser
 118 725 730 735
 119 Gln Arg Pro Thr Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Val Leu
 120 740 745 750
 121 Thr Val Thr Ser Thr Asp Glu Tyr Leu Asp Leu Ser Ala Pro Phe Glu
 122 755 760 765
 123 Gln Tyr Ser Pro Gly Gly Gln Asp Thr Pro Ser Ser Ser Ser Gly
 124 770 775 780
 125 Asp Asp Ser Val Phe Ala His Asp Leu Leu Pro Pro Ala Pro Pro Ser
 126 785 790 795 800
 127 Ser Gly Gly Ser Arg Thr
 128 805
 130 <210> SEQ ID NO: 2
 131 <211> LENGTH: 32
 132 <212> TYPE: DNA
 133 <213> ORGANISM: Artificial Sequence
 134 <220> FEATURE:
 135 <223> OTHER INFORMATION: artificial primer
 136 <400> SEQUENCE: 2
 137 acgtgcttagc tgagtccttg gggacggagc ag 32
 139 <210> SEQ ID NO: 3
 140 <211> LENGTH: 55
 141 <212> TYPE: DNA
 142 <213> ORGANISM: Artificial Sequence
 143 <220> FEATURE:
 144 <223> OTHER INFORMATION: artificial primer

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Input Set : N:\AMC\US10734661A.raw
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| | | |
|-----|---------------------------------------------------------------------|------|
| 196 | actcacgggg atttccaagt ctcccaccca ttgacgtcaa tggaggtttg ttttggcacc | 720 |
| 197 | aaaatcaacg ggactttcca aaatgtcgta acaactccgc cccattgacg caaatggcg | 780 |
| 198 | gtaggcgtgt acgggtggag gtctatataa gcagagctct ctggctaact agagaaccca | 840 |
| 199 | ctgcctactg gcttatcgaa attaatacga ctcactatag ggagacccaa gctggctagc | 900 |
| 200 | gtttaaactt aagcttggta ccgagctcgat cccctgtcg tgcatactc gaaggcgtg | 960 |
| 201 | gagatcccga ggagccaaa tcttgtgaca aaactcacac atgcccaccc tgcccagcac | 1020 |
| 202 | ctgaactcct ggggggaccg tcagtcttcc tcttcccccc aaaacccaag gacaccctca | 1080 |
| 203 | tgatctcccg gaccctcgag gtcacatgac tgggtggtgg cgtgagccac gaagaccctg | 1140 |
| 204 | aggtaaactt caactgttac gtggacggcg tggaggtgca taatgccaag acaaagccgc | 1200 |
| 205 | gggaggagca gtacaacagc acgtaccggg tggtcagcgt ctcaccgtc ctgcaccagg | 1260 |
| 206 | actggctgaa tggcaaggag tacaagtgc aaggctccaa caaagccctc ccagccccc | 1320 |
| 207 | tcgagaaaac catctccaaa gccaaaggcg agccccgaga accacaggtg tacaccctgc | 1380 |
| 208 | cccatcccg ggatgagctg accaagaacc aggtcagcct gacctgcctg gtcaaaaggct | 1440 |
| 209 | tctatcccg cgacatcgcc gtggagtggg agagcaatgg gcagccggag aacaactaca | 1500 |
| 210 | agaccacgccc tccctgtctg gactccgacg gctccttctt cctctacagc aagctcaccg | 1560 |
| 211 | tggacaagag caggtggcag caggggaacg tcttctcatg ctccgtgatg catgaggctc | 1620 |
| 212 | tgcacaacca ctacacgcag aagacccctt ccctgtctt gggtaaatgatc tctagaggc | 1680 |
| 213 | ccgtttaaac ccgtctgatca gcttcgactg tgccttctt tagccagcca tctgttgttt | 1740 |
| 214 | gcccctcccc cgtgccttcc ttgaccctgg aaggtgccac tcccactgtc ctttcttaat | 1800 |
| 215 | aaaatgagga aattgcacatcg cattgtctga gttagtgcata ttctattctg ggggtgggg | 1860 |
| 216 | tggggcagga cagcaagggg gaggattggg aagacaatag caggcatgct gggatgcgg | 1920 |
| 217 | tggctctat ggcttctgag gggaaagaa ccagctgggg ctctaggggg tatccccacg | 1980 |
| 218 | cgcctgttag cggcgattt agcgcggcg gtgtggtgg tacgcgcagc gtgaccgcta | 2040 |
| 219 | cacttgcag cgccttagcg cccgcttcc tgccttctt cccttcctt ctcgcacgt | 2100 |
| 220 | tcgcccgtt tccccgtcaa gctctaaatc gggcatccc tttagggttc cgatttagtgc | 2160 |
| 221 | cttacggca cctcgacccc aaaaaacttg attagggtaa tggttcacgt agtggccat | 2220 |
| 222 | cgcctgtata gacggttttt cgcctttaa cgttggagtc cacgttctt aatagtggac | 2280 |
| 223 | tcttgccttca aactggaaaca acactcaacc ctatctcggt ctattcttt gatttataag | 2340 |
| 224 | ggattttggg gatttggcc tattgttaa aaaatgagct gatttaacaa aaatttaacg | 2400 |
| 225 | cgaattaatt ctgtggaaatg tggctcagg aggggtgtgg aagtccccag gctccccagg | 2460 |
| 226 | cagcagaag tatgcaaaac atgcacatctca attagtcagc aaccagggtt gggaaagtccc | 2520 |
| 227 | cagctcccc agcaggcaga agtatgcaaa gcatgcacatc caattagtc gcaaccatag | 2580 |
| 228 | tcccgcccc aactccgccc atccgcccc taactccgccc cagttccgccc catttccgc | 2640 |
| 229 | cccatggctg actaattttt ttattttatc cagaggccga ggccgcctt gcctctgagc | 2700 |
| 230 | tattccagaa gtagtggaga ggctttttt gaggcctagg ctttgcaaa aagctccgg | 2760 |
| 231 | gagcttgcatt atccatatttcc gtagtgcata agcacgtt gacaattat catcgccata | 2820 |
| 232 | gtatatacgcc atagtataat acgacaagggt gaggactaa accatggcca agttgaccag | 2880 |
| 233 | tgccgttccg gtgcctcaccg cgccgcacgt cgccggagcg gtcgagttct ggaccgaccg | 2940 |
| 234 | gctcggttcc tccccggact tcgtggagga cgacttcgccc ggtgtggtcc gggacgacgt | 3000 |
| 235 | gaccctgttc atcagcgccg tccaggacca ggtggcgg gacaacaccc tggcttgggt | 3060 |
| 236 | gtgggtgcgc ggcctggacg agctgtacgc cgagtggcgt gaggctgtgt ccacgaactt | 3120 |
| 237 | ccgggacgccc tccggggccgg ccatgaccga gatcgccgag cagccgtgg ggcgggagtt | 3180 |
| 238 | ccgcctgcgc gaccggcccg gcaactgcgt gcacttcgtg gcccggaggagc aggactgaca | 3240 |
| 239 | cgtgctacga gatttcgatt ccaccggccgc cttctatgaa aggttgggt tcggaaatcg | 3300 |
| 240 | tttccgggac gccggctgga tgatcctcca ggcggggat ctcatacgatc agtttctgc | 3360 |
| 241 | ccaccccaac ttgtttattt cagttataa tggttacaaa taaagcaata gcatcacaacaa | 3420 |
| 242 | tttcacaaat aaagcatttt tttcaactgca ttcttagttgt ggtttgtca aactcatcaa | 3480 |
| 243 | tgtatcttat catgtctgta taccgtcgac ctctagctag agcttggcgt aatcatggc | 3540 |
| 244 | atagctgtttt cctgttgaa attgttaccc gtcacaattt ccacacaaca tacgagccgg | 3600 |

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/15/2004
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:54; N Pos. 253,254,255
Seq#:56; N Pos. 256,257,258
Seq#:70; N Pos. 1,2,3
Seq#:74; N Pos. 1,2,3
Seq#:81; N Pos. 1,2,3
Seq#:83; N Pos. 1,2,3

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 7
Seq#:7; Line(s) 326
Seq#:30; Line(s) 580
Seq#:31; Line(s) 589
Seq#:32; Line(s) 598
Seq#:33; Line(s) 607
Seq#:34; Line(s) 616
Seq#:35; Line(s) 625
Seq#:36; Line(s) 634
Seq#:37; Line(s) 643
Seq#:38; Line(s) 652
Seq#:39; Line(s) 661
Seq#:40; Line(s) 670
Seq#:41; Line(s) 679
Seq#:42; Line(s) 688
Seq#:43; Line(s) 697
Seq#:44; Line(s) 706
Seq#:45; Line(s) 715
Seq#:46; Line(s) 724
Seq#:47; Line(s) 733
Seq#:48; Line(s) 742
Seq#:49; Line(s) 751
Seq#:50; Line(s) 760
Seq#:51; Line(s) 769

VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Wrong Format
L:984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:240
L:1016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:240
L:1212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
L:1273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
L:1380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
L:1413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0